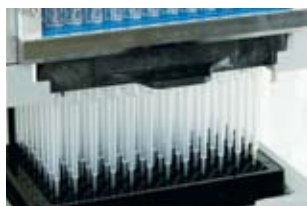


Thermo Scientific Matrix® Hydra® DT

The Thermo Scientific Matrix Hydra DT is a small, bench top 96- or 384-channel liquid handler capable of automating pipetting tasks, including plate stamping, reformatting, sample transfers and serial dilutions, with the single press of a button. The Matrix Hydra DT is compatible with our extensive range of Thermo Scientific Matrix D.A.R.T.s® (Disposable Automation Research Tips) tips and allows application flexibility with easy tip changing.



The compact design of the Matrix Hydra DT requires minimal bench space and is ideal for use in standard size biological hoods.



Automate Routine Pipetting Tasks. The Matrix Hydra DT automates many handheld multichannel pipetting procedures to 96- or 384-channel format. From microplate filling to complex pipetting applications, accomplish pipetting procedures faster and with greater accuracy and precision.

Flexible Microplate Access. The Matrix Hydra DT offers column- and row-wise microplate access for serial dilutions and intra- and inter-plate transfers that require partial Matrix D.A.R.T.s tips configurations. Matrix D.A.R.T.s tips serial dilution magazines are available to fit a variety of microplate access requirements and can easily be swapped for full configurations of 96 or 384 Matrix D.A.R.T.s tips.

Easy Programmability. On-board touch pad programming allows simple program creation and editing for standalone model use. In

addition, users at all levels can create and modify pipetting procedures with the intuitive ControlMate software via easy drag-and-drop programmability. This PC-based, graphical user interface is offered free of charge with every base unit and can be downloaded from www.controlmate.net.

Adaptability with Broad Range of Matrix D.A.R.T.s Tips. Choose from non-sterile, sterile, sterile-filtered, extended length and wide bore tip options to fit a wide variety of liquid handling procedures. All Matrix D.A.R.T.s tips are tested to ensure the best quality for optimal instrument performance.

Accessory Options. Add-on accessories include the 96 to 384 manual plate positioner, 3-position stage for greater walk-away capability and the Thermo Scientific Matrix eDrop® single channel non-contact dispenser.

Thermo Scientific Matrix Hydra DT Specifications

Dimensions (W x D x H)	21" / 53 cm x 14" / 35.5 cm x 10.5" / 27 cm
Weight	38 lbs/ 17 kg
Volume Range	0.5 µl-100 µl; 5.0 µl-300 µl
Dispense Type	Contact
Compatible Labware	24-, 96-, 384-, 1536-channel standard, low profile and deep well labware, tube racks
Power	Universal, 100-240 V
User Interface	On-board touch pad or ControlMate software

Thermo Scientific Matrix 3-Position Stage

Dimensions (W x D x H)	4" / 10 cm x 12" / 30 cm x 21" / 53 cm
Weight	19 lbs/ 9 kg
Resolution	0.1 mm

Requires ControlMate software for stage control

Thermo Scientific Matrix eDrop Single Channel Dispenser

Dimensions (W x D x H)	13" / 33 cm x 11" / 28 cm x 8" / 20 cm
Weight	15 lbs/ 7 kg
Volume Range	0.1 µl-120 µl
Dispense Type	Non-Contact
Air Supply	30 +/-5 PSI

Requires 3-Position Stage and ControlMate software

Computer Requirements

Operating System	Microsoft Windows® (98, NT 4, 2000, XP)
RAM	256 MB Recommended
Processor	1.4 GHz Recommended
Communication Port	One USB or RS232 (additional USB port required for Matrix Hydra eDrop)

Thermo Scientific Matrix D.A.R.T.s Tip Compatibility and Specifications

Item No.	Channels	Volume Range	Compatible Matrix D.A.R.T.s Tips	Precision	Accuracy
1096-DT-100	96	0.5 µl-100 µl	0.5 µl-30 µl (5586/5587/5588)	+/-2.0% or 0.15 µl	2.0% or 0.10 µl
			XL (5506/5507/5508)	+/-2.0% or 0.15 µl	2.0% or 0.10 µl
			1.0 µl-100 µl (5526/5527/5528)	+/-2.0% or 0.5 µl	2.0% or 0.25 µl
1096-DT-300	96	5.0 µl-300 µl	5.0 µl-300 µl (5516/5517/5518)	+/-2.0% or 1.0 µl	2.0% or 0.75 µl
			XL (5536/5537/5538)	+/-2.0% or 1.0 µl	2.0% or 0.75 µl
			WBXL (5546/5547/5548)	+/-2.0% or 1.0 µl	2.0% or 0.75 µl
1384-DT-100	384	0.5 µl-100 µl	0.5 µl-30 µl (5316/5317/5318)	+/-2.0% or 1.5 µl	2.0% or 0.15 µl
			XL (5416/5417/5418)	+/-2.0% or 1.5 µl	2.0% or 0.15 µl
			1.0 µl-100 µl (5326/5327/5328)	+/-2.0% or 1.5 µl	2.0% or 0.25 µl

XL = Extended Length XLWB = Extended Length Wide Bore

Accessory Options

Matrix Hydra eDrop Single Channel Dispenser	Serial Dilution/Select Row or Column Access Matrix D.A.R.T.s Tips Magazines
96 to 384 Manual Plate Positioner	Matrix D.A.R.T.s Tip Transfer Tool
3-Position XY Plate Stage	Thermal Control Options
Extended Warranty and Preventive Maintenance Packages	